

1 SOUND SOURCE LOCALIZATION SYSTEM, AND SOUND REFLECTING ELEMENT

2 Abstract

3 Enables the estimation of a sound source position at an angle
4 in a system with a small number of microphones, which was
5 conventionally difficult to perform, and improve the precision
6 of estimating the sound source position. By forming a
7 reflecting surface RS as an enveloping surface of a spheroid in
8 which a position of sound collecting means and a sound source
9 position are the focal points, a major reflected wave having a
10 delay amount corresponding to a sound source position is
11 generated, and the delay amount between the direct wave and the
12 reflected wave is checked, whereby the sound source position is
13 acquired and estimated.

14 Selected Drawing Fig. 5